

U.S. Patent Application Serial No. 10/538,912  
Amendment filed May 7, 2009  
Reply to OA dated March 24, 2009

**AMENDMENTS TO THE CLAIMS:**

Please amend claims 1, 7 and 9, as follows. This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

Claim 1 (Currently amended): An immunoassay method in which tartrate resistant acid phosphatase 5b (TRACP 5b) is assayed in a specimen containing the tartrate resistant acid phosphatase 5b (TRACP 5b) together with a competitive substance therein, the method comprising:

providing a first antibody that is Trk62 produced by a hybridoma deposited under the Budapest Treaty at National Institute of Advanced Industrial Science and Technology, International Patent Organism Depositary, under the accession number of FERM BP-7890, and a second antibody that is Trk49 produced by a hybridoma deposited under the Budapest Treaty at National Institute of Advanced Industrial Science and Technology, International Patent Organism Depositary, under the accession number of FERM BP-8249,

bonding the tartrate resistant acid phosphatase 5b and the competitive substance in the specimen to the first antibody and second antibody, wherein the first antibody and second antibody are both adsorbed on a first carrier, or wherein the first antibody is adsorbed on a first carrier and the second antibody is adsorbed on a second carrier dispersed in a solution or is dissolved in a solution, and then

measuring the level of the bonded tartrate resistant acid phosphatase 5b to assay the amount of tartrate resistant acid phosphatase 5b in said specimen,

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wherein the measurement of the level of the bonded tartrate resistant acid phosphatase 5b is the measurement of the amount of enzymatic activity of the bonded tartrate resistant acid phosphatase 5b, and

wherein the competitive substance is a substance not having enzymatic activity of tartrate resistant acid phosphatase 5b.

Claims 2-6 (Canceled).

Claim 7 (Currently amended): The immunoassay method according to claim 1, wherein the carrier on which at least the first antibody is adsorbed is an insoluble solid support.

Claim 8 (Canceled):

Claim 9 (Currently amended): A kit for immunoassay of a target substance in a specimen by the use of two types of antibodies, which comprises

a first antibody that is Trk62 produced by a hybridoma deposited under the Budapest Treaty at National Institute of Advanced Industrial Science and Technology, International Patent Organism Depository, under the accession number of FERM BP-7890, and a second antibody that is Trk49 produced by a hybridoma deposited under the Budapest Treaty at National Institute of Advanced Industrial Science and Technology, International Patent Organism Depository, under the accession number of FERM BP-8249,

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wherein the first antibody and the second antibody are adsorbed on a carrier, or

wherein the first antibody is adsorbed on a carrier and the second antibody is adsorbed on a carrier dispersed in a solution or is dissolved in a solution.

Claims 10-16 (Canceled).